Abstract

10

A novel substituted Sym-triindole derivative that is applicable to a wide spectrum of uses, such as various electrification preventions, electrification controls, capacitors, batteries, chemical sensors, displays, organic EL materials, solar cells, photodiodes, phototransistors, nonlinear materials, photorefractive materials, rustproof agents, adhesives, fibers, antistatic paints, electrodeposition paints, plating primers, electric corrosion protections and the like. There is provided a substituted Sym-triindole derivative of the general formula (1)

[formula 1]

$$\begin{array}{c|c}
R_1 & R_2 \\
R_5 & R_4 \\
R_4 & R_4 \\
R_7 & R_5 \\
R_1 & R_5 & R_4 \\
R_2 & R_3
\end{array}$$
(1)

(wherein R_1 , R_2 , R_3 and R_4 are each independently hydrogen, a halogen, a C1-C6 alkyl or the like, provided that, in no event, all of R_1 , R_2 , R_3 and R_4 are hydrogen simultaneously).